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10/671,706	09/29/2003	Hye-Sook Hwang	0630-1851P	9257

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EXAMINER
ALI, FARHAD

ART UNIT	PAPER NUMBER
2109	

NOTIFICATION DATE	DELIVERY MODE
07/13/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on <u>29 September 2003</u>.

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) <u>1-16</u> is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) <u>1-16</u> is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on <u>29 September 2003</u> is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a) ☒ All   b) ☐ Some *   c) ☐ None of:

       1. ☒ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____.

       3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2.   Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Zintel

(US 6,779,004 B1).

Claim 1

Zintel teaches a selective device recognition apparatus in a UPnP based home

network, comprising:

a network stream processing unit for parsing a characteristic data stream of a

device and reading a pertinent network transmission possible identifier of the device

characteristic identifier; and a network transmission judging unit for comparing the read

network transmission possible identifier with a preset network transmission possible

identifier and judging network transmission of characteristic data according to the

comparison result (Column 7 Lines 8-23 "User Control Point" and "The set of modules

that enable communication with a UPnP Controlled Device..."; and see Table on

column 14 "Description Client" which "receive description documents").

Claim 2

Zintel teaches the apparatus of claim 1, further comprising: a network interface for receiving device characteristic data transmitted from a home network device (Column 7 Lines 8-23 "User Control Point" and "The set of modules that enable communication with a UPnP Controlled Device...");

and a transmission judgment table in which a pertinent network transmission possible identifier is matched-recorded by a device characteristic identifier read from the network stream processing unit (Column 9 Lines 37-44 "Service State Table (SST)" and "A logical table consisting of rows of [Variable, Type, Legal Values, Default Value, Current Value] that represents the current electrical, mechanical and/or logical state of a Service.").

Claim 3

Zintel teaches the apparatus of claim 1, wherein the network stream processing unit includes:

a preprocessor for parsing the device characteristic data stream;

a buffer manager for temporally storing the device characteristic data parsed in the preprocessor in the buffer and outputting a registry signal corresponded thereto;

and an identifier reader for searching the device characteristic data temporally stored in the buffer according to the registry signal outputted from the buffer manager and reading a device characteristic identifier and a network transmission identifier (See Figure 21. "Processing Unit" "RAM" "LAN" and "Applications").

Claim 4

Zintel teaches the apparatus of claim 3, wherein the preprocessor performs parsing of the device characteristic data stream by device characteristic data units divided by a token(/) (See Figure 16 XML data in token format).

Claim 5

Zintel teaches the apparatus of claim 1, wherein the network transmission judging unit includes:

a device characteristic identifier detecting module for detecting a device characteristic identifier same with the device characteristic identifier read from the network stream processing unit a network transmission possible identifier comparing module for comparing the network transmission possible identifier detected by the device characteristic identifier detecting module with the network transmission possible identifier read from the network stream processing unit; and a transmission judging module for judging whether it is possible to perform network transmission of pertinent characteristic data indicated by the device characteristic identifier according to the comparison result. (Column 11 Lines14-15 "Discovery Client" is "The module that runs in a User Control Point that initiates SSDP queries" and Column 14 Line 9 "Description Client" and see Figure on column 14 "Description Client" which "receive description documents" and Column 7 Lines 8-23 "User Control Point" and "The set of modules that enable communication with a UPnP Controlled Device...").

Claim 6

Zintel teaches a selective device recognition method in a UPnP based home network, comprising: receiving a device characteristic data stream and parsing it (see Figure on column 14 "Description Client" which "receive description documents"); reading a device characteristic identifier and a network transmission possible identifier; and comparing the read network transmission possible identifier with a prerecorded network transmission possible identifier and judging whether network transmission of characteristic data corresponded to the read device characteristic identifier is performed according to the comparison result (Column 11 Lines14-15 "Discovery Client" is "The module that runs in a User Control Point that initiates SSDP queries" and Column 9 Lines 6-8 "Description Document" "A structured unit of data that is used by a User Control Point or UPnP Bridge to learn the capabilities of a Controlled Device").

Claim 7

. Zintel teaches the method of claim 6, wherein parsing of the received device characteristic data stream is performed by device characteristic data units divided by a token(/) or parsing of the received device characteristic data stream is performed by inserting a null string after the token in the parsing step (Column 33 Lines 36-42 "SzHeaders [in] null-terminated text string containing the headers for the event, each separated by CRLF. SzEventBody [in] null-terminated text string containing the body of the event message").

Claim 8

Zintel teaches the method of claim 6, wherein the device characteristic data stream is a request message for UPnP device recognition in a UPnP CP (control point) device (Column 11 Lines14-15 "Discovery Client" is "The module that runs in a User Control Point that initiates SSDP queries").

Claim 9

Zintel teaches the method of claim 8, wherein the request message includes inherent network transmission possible identifier information per each device characteristic identifier (Applicant admits inherency in the claim).

Claim 10

Zintel teaches the method of claim 8, wherein the UPnP device includes the network transmission possible identifier, and recognition is judged by the UPnP CP device (See Figure 10 and see Table on column 14 "Discovery Client" "Discovery Server" "Description Client" "Description Server" and "Control Server").

Claim 11

Zintel teaches the method of claim 8, wherein the UPnP CP device and the UPnP device exist in the same local network (See Figure 2 User Control Point and Controlled Device).

Claim 12

Zintel teaches the method of claim 6, wherein the device characteristic data

stream is an advertisement message for notifying a UPnP device itself (see Figure on

column 14 "Description Server" which "Provide description documents").

Claim 13

Zintel teaches the method of claim 12, wherein the advertisement message

includes inherent network transmission possible identifier information per each device

characteristic identifier (Applicant admits inherency in the claim).

Claim 14

Zintel teaches the method of claim 6, wherein a pertinent network transmission

possible identifier of the read device characteristic identifier is compared with a network

transmission possible identifier recorded in a transmission judgment table in the network

transmission judging step (Column 9 Lines 37-44 "Service State Table (SST)" and "A

logical table consisting of rows of [Variable, Type, Legal Values, Default Value, Current

Value] that represents the current electrical, mechanical and/or logical state of a

Service.").

Claim 15

Zintel teaches the method of claim 6, wherein the network transmission judging

step includes the sub-steps of: outputting a request message to a UPnP CP (control

point) device in case of a message not having network transmission possible identifier

information; and sequentially comparing each network transmission possible identifier with each network transmission possible identifier of a UPnP device in case of a message having network transmission possible identifier information and transmitting a pertinent response message to the UPnP CP device according to the comparison result (coincidence) (Column 21 Lines 5-14 "User Control Points 104 are not required to have any prior knowledge of the SCPs 402 required to control the Services on the various devices. Therefore, a Controlled Device or Bridge must be able to describe to a User Control Point the protocols required to control its Services, such that the User Control Point will be able to implement these protocols dynamically").

Claim 16

Zintel teaches the method of claim 6, wherein the network transmission judging step includes the sub-steps of: recognizing a UPnP device by a general recognition process in case of a message not having network transmission possible identifier information; and sequentially comparing network transmission possible identifier information with a network transmission possible identifier of a UPnP CP device when network transmission possible identifier information is detected and recognizing a pertinent device and a service according to the comparison result (coincidence) (Column 21 Lines 5-14 "User Control Points 104 are not required to have any prior knowledge of the SCPs 402 required to control the Services on the various devices. Therefore, a Controlled Device or Bridge must be able to describe to a User Control

Point the protocols required to control its Services, such that the User Control Point will

be able to implement these protocols dynamically").

Conclusion

3.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Farhad Ali whose telephone number is (571) 270-1920.

The examiner can normally be reached on Monday thru Friday, 7:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jeffrey C. Pwu can be reached on (571) 272-6798. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

F.A.

JEFFREY PWU
SUPERVISORY PATENT EXAMINER